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Research Unit

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Iowa Department of
Natural Resources

Iowa State
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Wildlife Service

Wildlife
Management
Institute

18 April 1994

WNT STAFF
FYI
Pauline

COPY

Pauline Drobney
WNT Biologist
Walnut Creek National Wildlife Refuge
and Prairie Learning Center
P.O. Box 399
Prairie City, IA 50228

Dear Pauline,

Enclosed is a list of species we recorded in Walnut Creek (S) in 1993. Mean abundance is averaged from census counts from all 50m-radius circular plots in our census blocks. Species with values of 0.00 were not counted in circular plots. We also recorded species observed in the census blocks or surrounding sections but not counted in census blocks. Ninety-two species were recorded in the five watersheds we visited in 1993; 64 were recorded in Walnut Creek (S).

I have adjusted the locations of several 1994 census blocks since we talked last week. In section 14 Des Moines Township, the census block will come in from the west side instead of the north and will be all on the refuge. In section 21 Des Moines Township, I have moved the census block south to be all on the refuge. I will be sending a proposal for the work we plan to do on the refuge that will include the exact locations of all of the census blocks as well as estimated dates the work will be done. You should receive it in the next several weeks.

I appreciate your cooperation and help in conducting our research in Walnut Creek (S) watershed. If you have any questions or further comments please contact me. Thank you.

Sincerely,

Timothy M. Bergin

Timothy M. Bergin
Post-doctoral Research Associate
Department of Animal Ecology
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REC'D APR 20 1994

Avian species recorded in Walnut Creek (S) in circular plots (CP), census blocks (CB), sections (S), and all three combined (Comb) in 1993.

P = present, blank = absent.

Species	Walnut Creek (S)				
	CP	CB	S	Comb	Mean Abundance ¹
American bittern					0.00*
Green-backed heron					0.00
Great blue heron		P	P	P	0.00
Great egret					0.00
Canada goose					0.00
Mallard		P	P	P	0.00
Blue-winged teal					0.00
Wood duck			P	P	0.00
American coot					0.00
Killdeer	P	P	P	P	32.16
Upland sandpiper			P	P	0.00
Black tern					0.00
Turkey vulture		P	P	P	0.00
Cooper's hawk					0.00
Red-tailed hawk	P	P	P	P	1.66
American kestrel	P	P		P	0.66
Northern bobwhite	P	P	P	P	0.33
Ring-necked pheasant	P	P	P	P	3.32
Greater prairie chicken					0.00
Gray partridge	P	P		P	2.32
Rock dove	P	P	P	P	1.66
Mourning dove	P	P	P	P	10.94
Black-billed cuckoo	P	P	P	P	0.99
Yellow-billed cuckoo	P	P	P	P	0.99
Great horned owl	P	P		P	0.33
Short-eared owl					0.00
Barred owl					0.00
Common nighthawk					0.00
Whip-poor-will					0.00
Chimney swift	P	P		P	1.66
Belted kingfisher					0.00
Northern flicker	P	P	P	P	1.99
Red-bellied woodpecker			P	P	0.00
Red-headed woodpecker	P		P	P	1.33
Hairy woodpecker					0.00
Downy woodpecker	P			P	0.66

Avian species in Walnut Creek (S). Cont.

Species	Walnut Creek (S)				
	CP	CB	S	Comb	Mean Abundance ¹
Eastern kingbird	P	P	P	P	5.97
Great crested flycatcher			P	P	0.00
Eastern wood-pewee			P	P	0.00
Eastern phoebe					0.00
Willow flycatcher	P		P	P	1.33
Horned lark	P	P	P	P	25.86
Barn swallow	P	P	P	P	28.85
Cliff swallow	P			P	2.32
Northern rough-winged swallow	P			P	0.66
Bank swallow					0.00
Blue jay	P	P	P	P	2.32
American crow		P	P	P	0.00
Black-capped chickadee	P		P	P	4.97
White-breasted nuthatch					0.00
House wren	P	P	P	P	5.64
Sedge wren	P	P	P	P	4.31
Marsh wren					0.00
Eastern bluebird			P	P	0.00
Ruby-crowned kinglet	P			P	0.33
American robin	P	P	P	P	38.46
Loggerhead shrike	P			P	0.33
Gray catbird	P	P	P	P	5.97
Northern mockingbird					0.00
Brown thrasher	P	P	P	P	7.63
Wood thrush					0.00
Cedar waxwing	P			P	1.66
European starling	P	P	P	P	2.98
Yellow-throated vireo			P	P	0.00
American redstart					0.00
Yellow warbler					0.00
Common yellowthroat	P	P	P	P	15.92
Rose-breasted grosbeak	P		P	P	0.33
Black-headed grosbeak					0.00
Northern cardinal	P	P	P	P	4.31
Indigo bunting	P	P	P	P	7.29
Grasshopper sparrow	P	P	P	P	25.53
Henslow's sparrow	P			P	1.33
Vesper sparrow	P	P	P	P	18.24

Avian species in Walnut Creek (S). Cont.

Species	Walnut Creek (S)				
	CP	CB	S	Comb	Mean Abundance ¹
Savannah sparrow					0.00
Song sparrow	P	P	P	P	20.56
Lark sparrow					0.00
Field sparrow	P	P	P	P	0.00
Chipping sparrow	P	P	P	P	4.31
Dickcissel	P	P	P	P	64.33
Bobolink					0.00
Eastern meadowlark	P	P	P	P	3.69
Western meadowlark	P	P	P	P	11.27
Yellow-headed blackbird		P		P	0.00
Red-winged blackbird	P	P	P	P	190.99
Brown-headed cowbird	P	P	P	P	48.41
Common grackle	P	P	P	P	7.29
Orchard oriole					0.00
Northern oriole	P		P	P	0.99
House finch	P	P		P	1.99
House sparrow	P	P	P	P	17.24
American goldfinch	P	P	P	P	17.24
Total Species (n=92)	52	45	53	64	663.15
# of additional species not recorded at smaller spatial scale	0	5	7	12	
% of Total Species in the watershed	81.1	7.8	10.9	100.0	
% of Total Species in all watersheds (n=5)	56.5			69.6	

¹ Mean abundance = #/circular plot/100ha

* Species with values of 0.00 were not counted in circular plots.